

NATIONAL ARCHIVES AND RECORDS ADMINISTRATION
RECORD GROUP 92, RECORDS OF THE CHIEF OF ENGINEERS
A1 ENTRY 1890J
BOX 139
FOLDER "400.1141 (Compound Spray for Shoes)"

EX-257

SB6240

O. G. M. C.
MAIL AND RECORD BRANCH

Title

Has 1141 (Compound spray for skin)

Subject

FORM B-9

24-69015-M-40M

SB6241

SB6242

MTA II
PC 92
Entry 1890 J
Box 139
Folder "400, 1141 (Compound spray for shoes)"

att to
green copy
letter 6/24/44

421.11

SPMDH

1st Ind.

WLH:jn

A.S.F., S.G.O., 19 July 1944.

TO: The Quartermaster General, Washington, D. C. (Attention: Military Planning Division.)

1. Reference basic communication, it is the opinion of this office that the substitute of such spray for dubbing shoes does not alter the potential toxicity to the wearer of the shoes. Since Army dubbing has been approved for use on shoes, the subject spray shoe compound should also be approved for use on the outside of shoe uppers.

2. Persons applying this spray compound are exposed to toxic materials in the volatile solvent portions. Such persons should be protected against excessive vapor concentrations and contact of the liquid with the skin. The safe permissible limits for Stoddard solvent are 1,000 parts per million of air. This solvent on prolonged contact with the skin will cause fissures and eczematoid dermatitis. The safe permissible limits for trichlorethylene should not exceed 200 parts per million of air. The safe limits for cyclohexanone have not been established. However, both trichlorethylene and cyclohexanone cause systemic poisoning through skin absorption and contact should therefore be avoided.

3. It is recommended that precautionary measures for individuals applying such spray should include the following:

a. Impervious gloves, sleeves, and aprons should be worn by persons applying the spray.

b. Where spraying is not done under controlled conditions where the known concentration of vapors is less than that above listed, chemical cartridge respirators approved by U. S. Bureau of Mines or regulation gas masks should be worn.

For The Surgeon General:

ARTHUR B. WELSH,
Colonel, Medical Corps,
Deputy Chief, Operations Service.

R. G. Prentiss
R. G. PRENTISS, JR.,
Colonel, Medical Corps,
Director, Technical Division.

To file
21 July 1944
S. H. C.

400,1141 (Compound spray for shoes)

SB6243



SB6244



ARMY SERVICE FORCES
OFFICE OF THE QUARTERMASTER GENERAL
WASHINGTON

IN REPLY REFER TO SPORD 400.112
(Compound, Spray)

24 June 1944.

SUBJECT: Spray Compound for Shoe Uppers.

TO: Office of The Surgeon General, Industrial Branch.
1818 H Sts., N.W., Washington, D. C.
ATTENTION: Lieut. Col. William Cooke.
THRU: Lieut. Col. J. B. Klopp.

1. The use of an oil-solvent treatment in the shoe factory has been developed for application to the flesh-out service shoes in order to increase the waterproofing properties of the leather. The solution is applied to the outside of the finished shoe by the spray method, and serves to increase the grease content of the leather with a result similar to an application of Army Dubbing.

2. The composition of the spray compound is as follows:

Non volatile oil base (equal parts mineral and fatty oil)	50%
Volatile solvent (Stoddard solvent, or a mixture of 80 parts perchlorethylene and 20 parts cyclohexanone)	40%
Preservative (1% based on non volatile oil base)	0.5%
Aluminum Stearate	2.0%

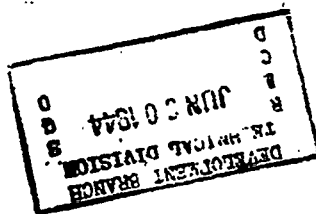
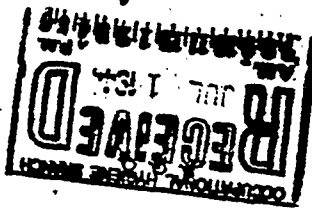
3. The preservative of mildew-proofing agent is the same as that used in the present Army Dubbing which has been approved by your Office, and the amount used based on the non-volatile oil base which is retained on the leather, will not exceed the amount specified in the dubbing formula.

4. A treatment of this type is urgently needed, and your comments and recommendations are invited in order that necessary precautions may be taken and suitable instructions included in the specification.

For The Quartermaster General:

George F. Dornier
GEORGE F. DORNIER
Colonel, Q.M.G.,
Assistant.

SB6245



JUN 29 5 12 PM '44
MAIL & RECORDS BRANCH

JUL 3 1944
RECORDED

SB6246